

Development of Nuclear Option for Engineering and Science Majors

Executive Summary

Prairie View A&M University (PVAMU) is a public institution of higher education and a land-grant university as part of the Texas A&M University System. It is a Historically Black College and University (HBCU). Ninety percent of undergraduate students at PVAMU are African Americans. The Roy G. Perry College of Engineering (CoE) at PVAMU offers eight baccalaureate degrees, four degrees at the master's level, and one at the doctorate level (in Electrical Engineering).

We propose to use NRC funds in a two-tier approach to curriculum development: first, develop course modules and infuse them in existing courses to immediately provide fundamental knowledge in nuclear science; second, develop one laboratory course and at least one lecture course. We will focus on two major areas: health physics and back-end fuel cycle, particularly in relation to environmental impact and separation chemistry. These new activities proposed with NRC funding will support further development of the nuclear option within CoE at PVAMU.

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